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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.		
10/625,957	07/24/2003	Sumit Talwalkar	MOTB:033US	1631		
75	7590 10/31/2006			EXAMINER		
David D. Bahler, Esq.			TSE, YOU	TSE, YOUNG TOI		
FULBRIGHT &	Ł JAWORSKI, L.L.P.	•	ART UNIT	PAPER NUMBER		
600 Congress Avenue			2611	2611		
Austin, TX 78701			DATE MAILED: 10/31/2006	6		

Please find below and/or attached an Office communication concerning this application or proceeding.

Applicant(s)  TALWALKAR ET AL.  Examiner  ART Unit  Period for Reply  AS HORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 1 MONTH(S) OR THIRTY (30) DAYS. WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.  Estimators of time may be available under the provision of 37 CFR 1-136(). In no event, however, may a may be a tempty feed after 10X (6) MONTHS from the mailing date of this communication will apply and will expire SIX (6) MONTHS from the mailing date of this communication. Failure for government and the provision of the mailing date of this communication. Period the major and the provision of the state of the communication will apply and will expire SIX (6) MONTHS from the mailing date of this communication. Period the major of the communication of the state adjustant to become ABM/DONED (3) U.S. C \$ 133. Apri reduce any senior depletic time adjustment. See 37 CFR 1-70(b).  Status  1) Responsive to communication (s) filled on 24 July 2003.  2a) This action is FINAL.  2b) This action			
## Defice Action Summary    Examiner   YOUNG T. TSE   2511		Application No.	. Applicant(s)
VOUND T. TSE	Office Aut 0	10/625,957	TALWALKAR ET AL.
The MAILING DATE of this communication appears on the cover sheet with the correspondence address — Period for Reply  A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 1 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.  Extensions of the may be available under the provision of 30°CFA 130(a) in no event, however, may a reply be timely filled after 9X (6) MONTHS from the mailing date of this communication of 30°CFA 130(a) in no event, however, may a reply be timely filled after 9X (6) MONTHS from the mailing date of this communication. Failutes the publy within the set or cateload period for rely with 15 status to be communication to become AMANDONED 63 st. 3C (§ 13); Any reply received by the Office lites than three months after the mailing date of this communication, even if timely filled, may reduce any earned patient them adjustment. Set 3°CFR 1.704(b).  Status  1) ☑ Responsive to communication(s) filled on 24 July 2003.  2a) ☑ This action is FINAL.  2b) ☑ This action is FINAL.  2b) ☑ This action is non-final.  3) ☑ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.  Disposition of Claims  4) ☑ Claim(s) 1-28 is/are pending in the application.  5) ☑ Claim(s) is/are allowed.  6) ☑ Claim(s) is/are allowed.  7) ☑ Claim(s) is/are objected to.  8) ☑ Claim(s) is/are objected to.  8) ☑ Claim(s) is/are objected to.  9) ☑ The specification is objected to by the Examiner.  10) ☐ The prawing(s) filed on is/are: a) ☑ accepted or b) ☑ objected to by the Examiner.  Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).  Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(c) 111 ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.  Priority under 35 U.S.C. §	Oπice Action Summary	Examiner	Art Unit
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2) Notice of Draftsperson's Patent Drawing Review (PTO-948)  Paper No(s)/Mail Date	1) Notice of References Cited (PTO-892)		Summary (PTO-413)

U.S. Patent and Trademark Office PTOL-326 (Rev. 08-06)

Paper No(s)/Mail Date \_

3) Information Disclosure Statement(s) (PTO/SB/08)

Paper No(s)/Mail Date. \_\_\_ 5) Notice of Informal Patent Application

6) Other: \_\_\_\_.

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## **DETAILED ACTION**

## Election/Restrictions

1. This application contains claims directed to the following patentably distinct species:

Figure 2 is a block diagram of a carrier suppression system, representing a first embodiment of the invention.

Figure 3 is a block diagram of the carrier suppression system, representing a second embodiment of the invention.

Figure 4 is a block diagram of the carrier suppression system, representing a third embodiment of the invention.

Figure 5 is a flowchart of a feedback DC calibration method, representing a first embodiment of the invention.

Figure 6 is a flowchart of an unrotated carrier suppression method, representing a second embodiment of the invention.

Figure 8 is a flowchart of a rotated carrier suppression method, representing a third embodiment of the invention.

Figure 10 is a flowchart of a hybrid carrier suppression method, representing a fourth embodiment of the invention.

The species are independent or distinct because claims 1-10 are directly related to the unrotated or rotated carrier suppression method of Figure 6 or Figure 8 for applying a set of four correction signal pairs to the quadrature modulator; detecting a

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first set of four output signals and identifying an optimum correction signal pair from among the set of four correction signal pairs; and using the final correction signal pairs to suppress a carrier in the quadrature modulator. However, claims 11-28 are directly related to a method of Figure 5 for performing a search method or a calibration method to determine a pair of receiver path correction signals; performing a search method to determine a pair of transmitter path correction signals; and using the pairs of receiver path and transmitter path correction signals to suppress a carrier signal in the quadrature modulator and the apparatus of Figure 2 for suppressing a carrier in the quadrature modulator.

Applicant is required under 35 U.S.C. 121 to elect a single disclosed species for prosecution on the merits to which the claims shall be restricted if no generic claim is finally held to be allowable. Currently, no claims are generic.

Applicant is advised that a reply to this requirement must include an identification of the species that is elected consonant with this requirement, and a listing of all claims readable thereon, including any claims subsequently added. An argument that a claim is allowable or that all claims are generic is considered nonresponsive unless accompanied by an election.

Upon the allowance of a generic claim, applicant will be entitled to consideration of claims to additional species which depend from or otherwise require all the limitations of an allowable generic claim as provided by 37 CFR 1.141. If claims are added after the election, applicant must indicate which are readable upon the elected species.

MPEP § 809.02(a).

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2. Applicant is advised that the reply to this requirement to be complete must include (i) an election of a species or invention to be examined even though the requirement be traversed (37 CFR 1.143) and (ii) identification of the claims encompassing the elected invention.

The election of an invention or species may be made with or without traverse. To reserve a right to petition, the election must be made with traverse. If the reply does not distinctly and specifically point out supposed errors in the restriction requirement, the election shall be treated as an election without traverse.

Should applicant traverse on the ground that the inventions or species are not patentably distinct, applicant should submit evidence or identify such evidence now of record showing the inventions or species to be obvious variants or clearly admit on the record that this is the case. In either instance, if the examiner finds one of the inventions unpatentable over the prior art, the evidence or admission may be used in a rejection under 35 U.S.C.103(a) of the other invention.

3. Applicant is reminded that upon the cancellation of claims to a non-elected invention, the inventorship must be amended in compliance with 37 CFR 1.48(b) if one or more of the currently named inventors is no longer an inventor of at least one claim remaining in the application. Any amendment of inventorship must be accompanied by a request under 37 CFR 1.48(b) and by the fee required under 37 CFR 1.17(i).

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Any inquiry concerning this communication or earlier communications from the examiner should be directed to YOUNG T. TSE whose telephone number is (571) 272-3051. The examiner can normally be reached on Monday-Friday.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Jay Patel can be reached on (571) 272-2988. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

OUNG T. TSE Primary Examiner Art Unit 2611